TPC Gain Calibration Update

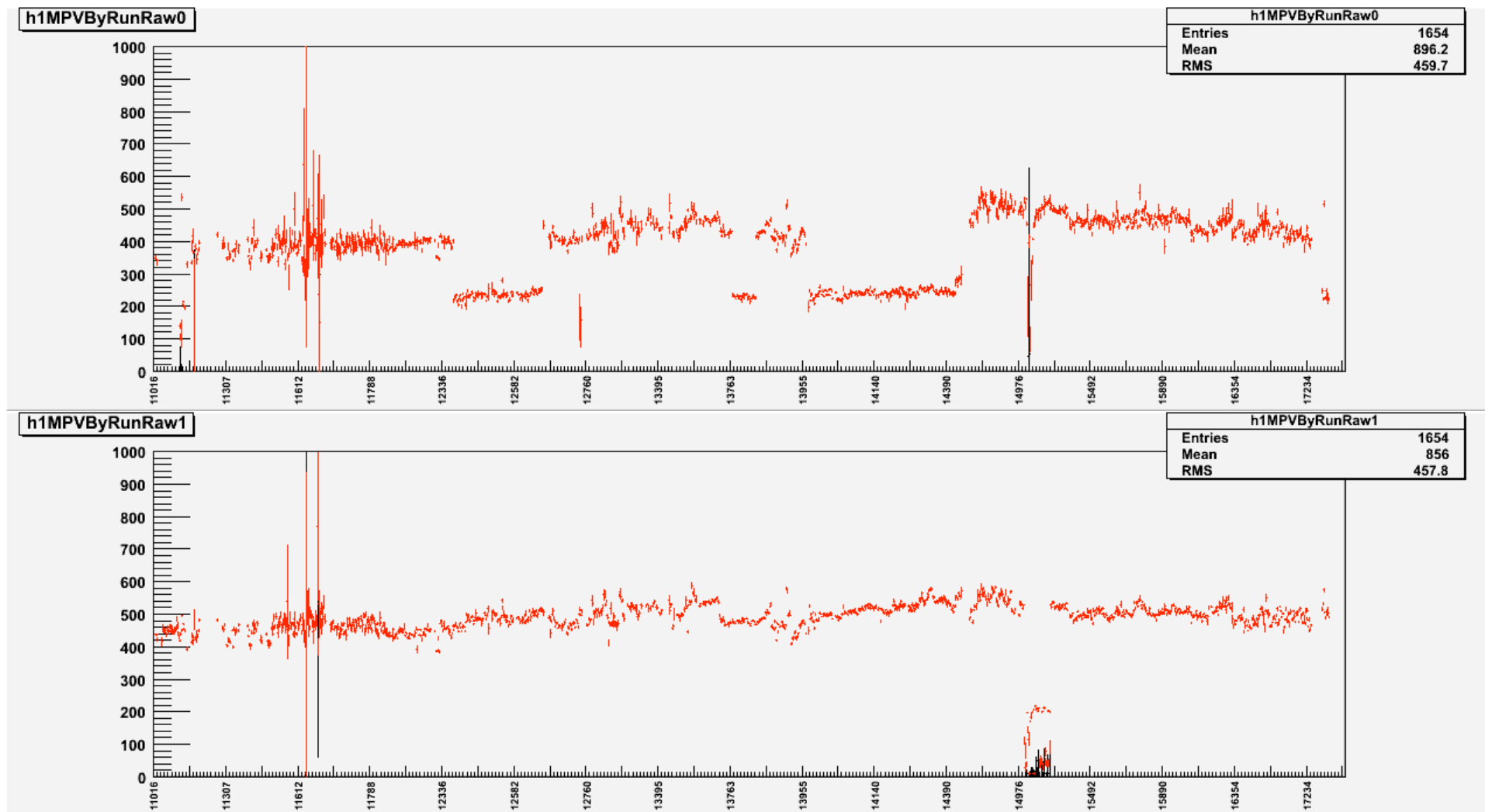J.L. Klay, LLNL
10-Aug-2006

Pass2 Anode Calibration QA

- QA on Anode calibrations

- Module checked in to RunInfo to look at calibration parameters in DB (RITPCCalib.*, testRITPCCalib.cc)

- Using histogram output in afs allows to examine bad fits, re-fit, etc.

- ~1650 runs, plotting Landau MPV for fits to beam track ADC as a function of run for each anode
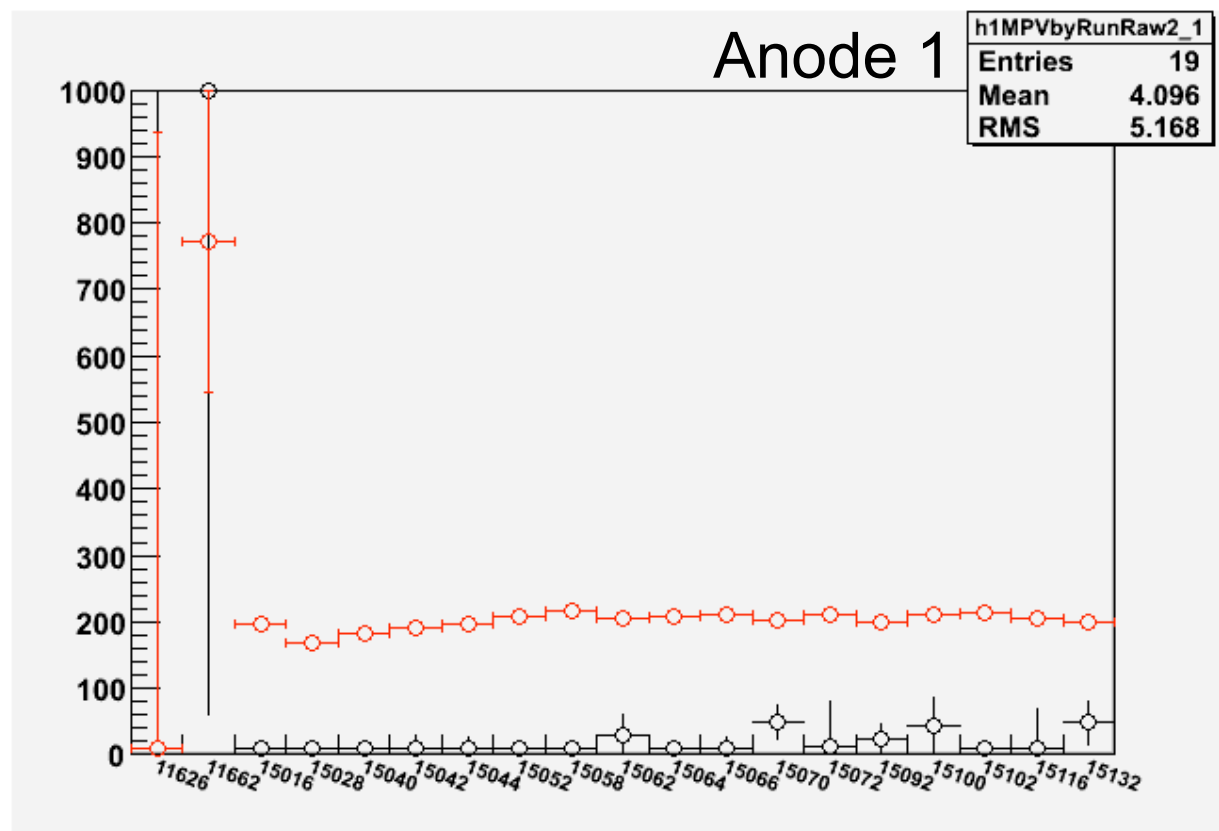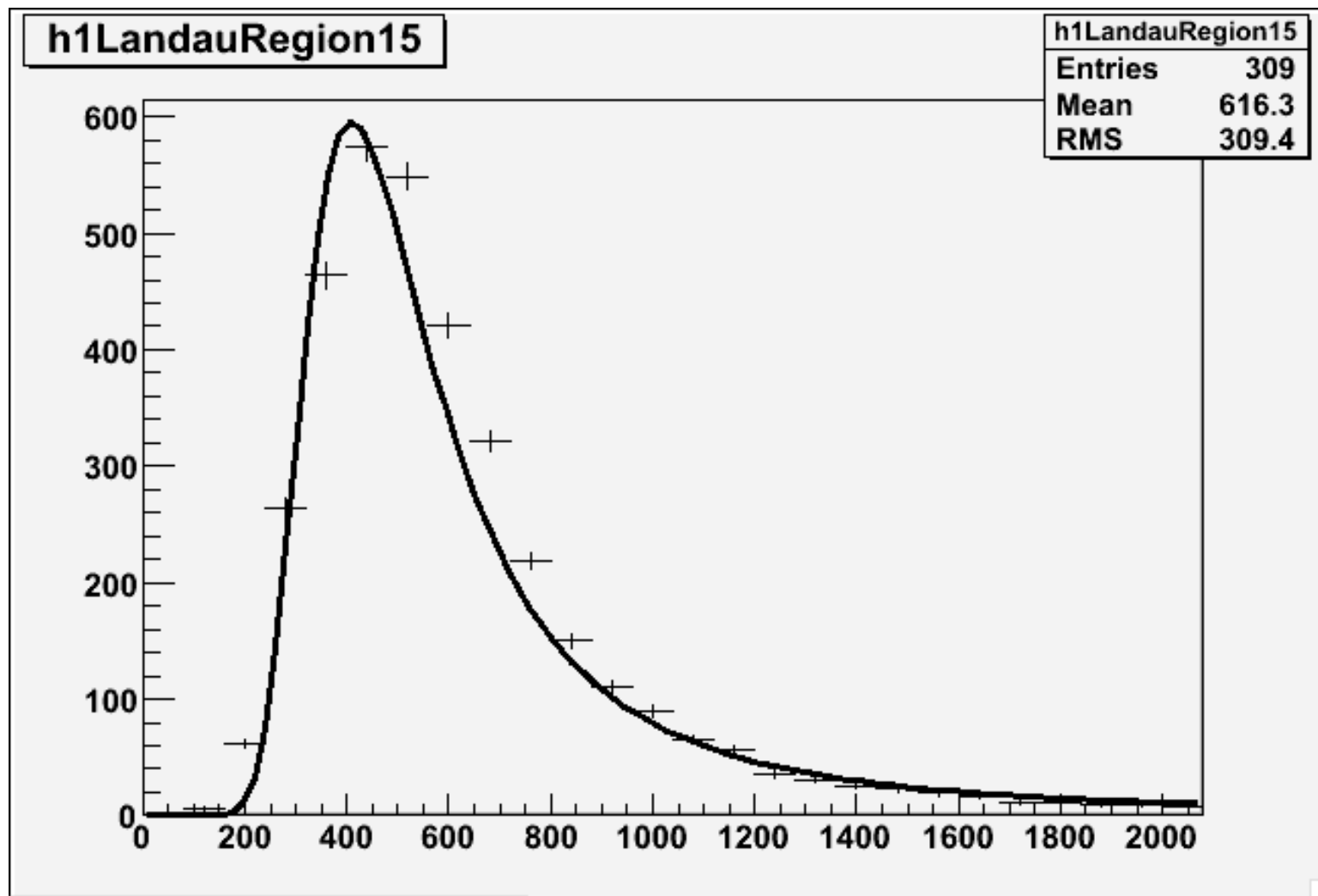
Anode 0/1

Re-fitting
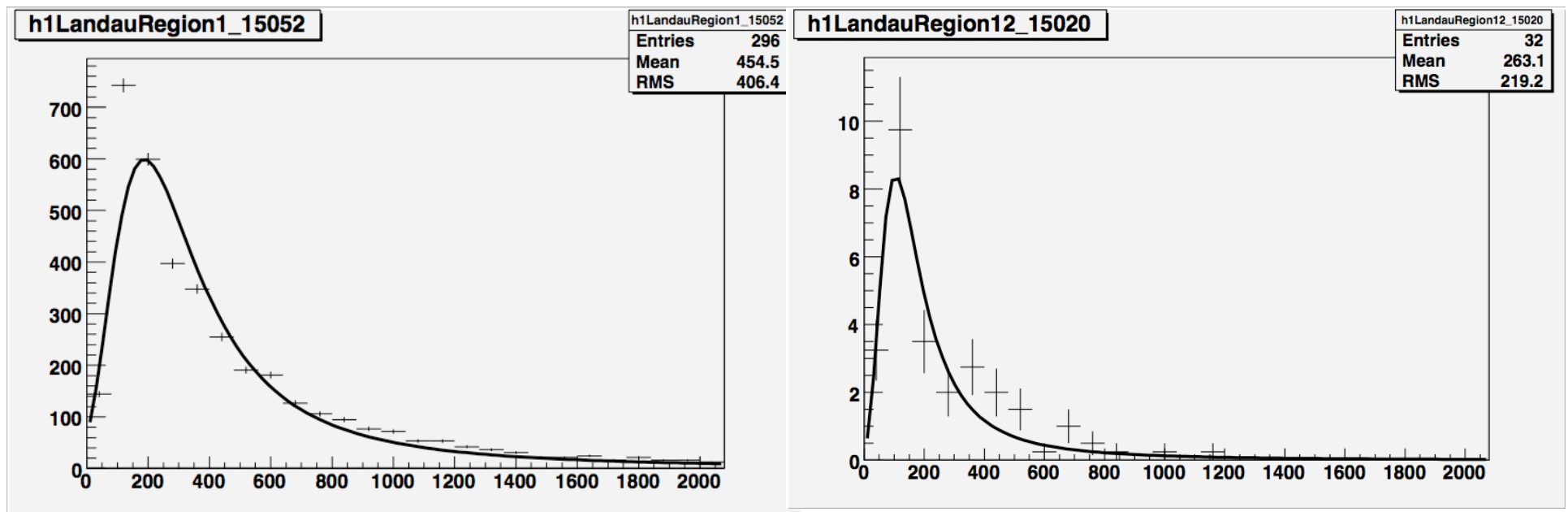
Select runs with poor fits, try re-fit, plot results:

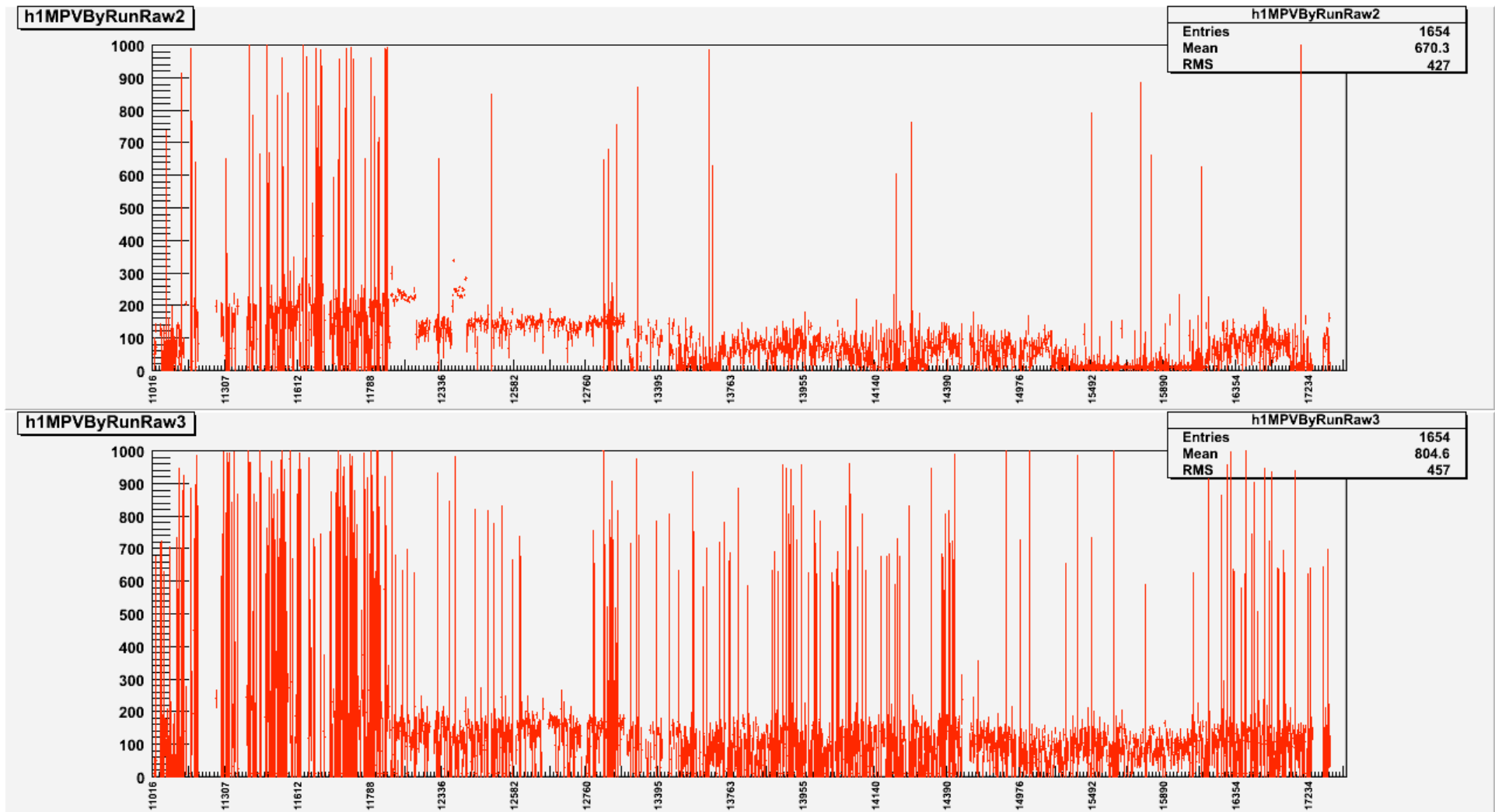# Example of a reasonably good fit

Re-fitting QA
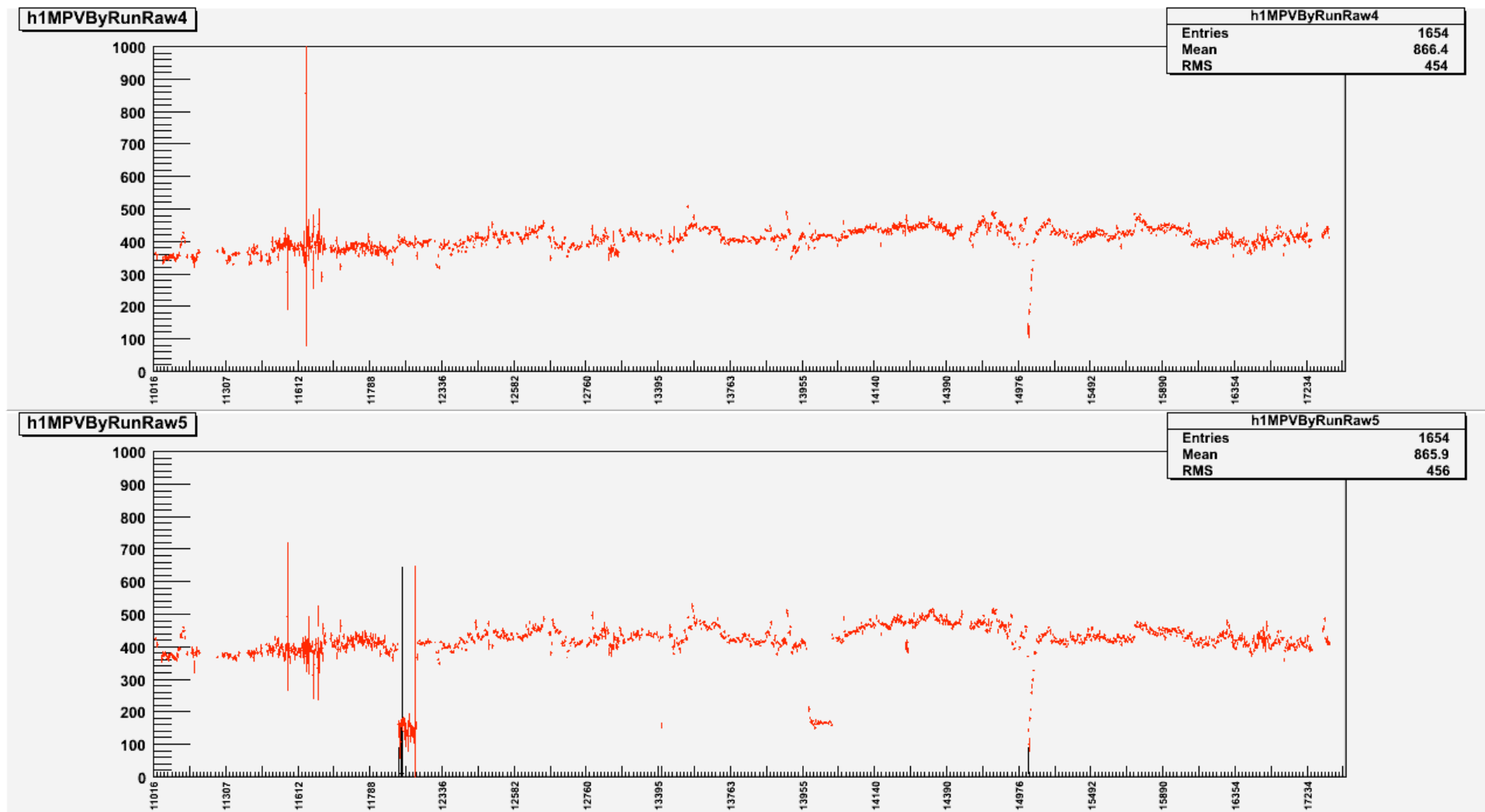
Need to make sure new fits are actually better:

Anode 2/3

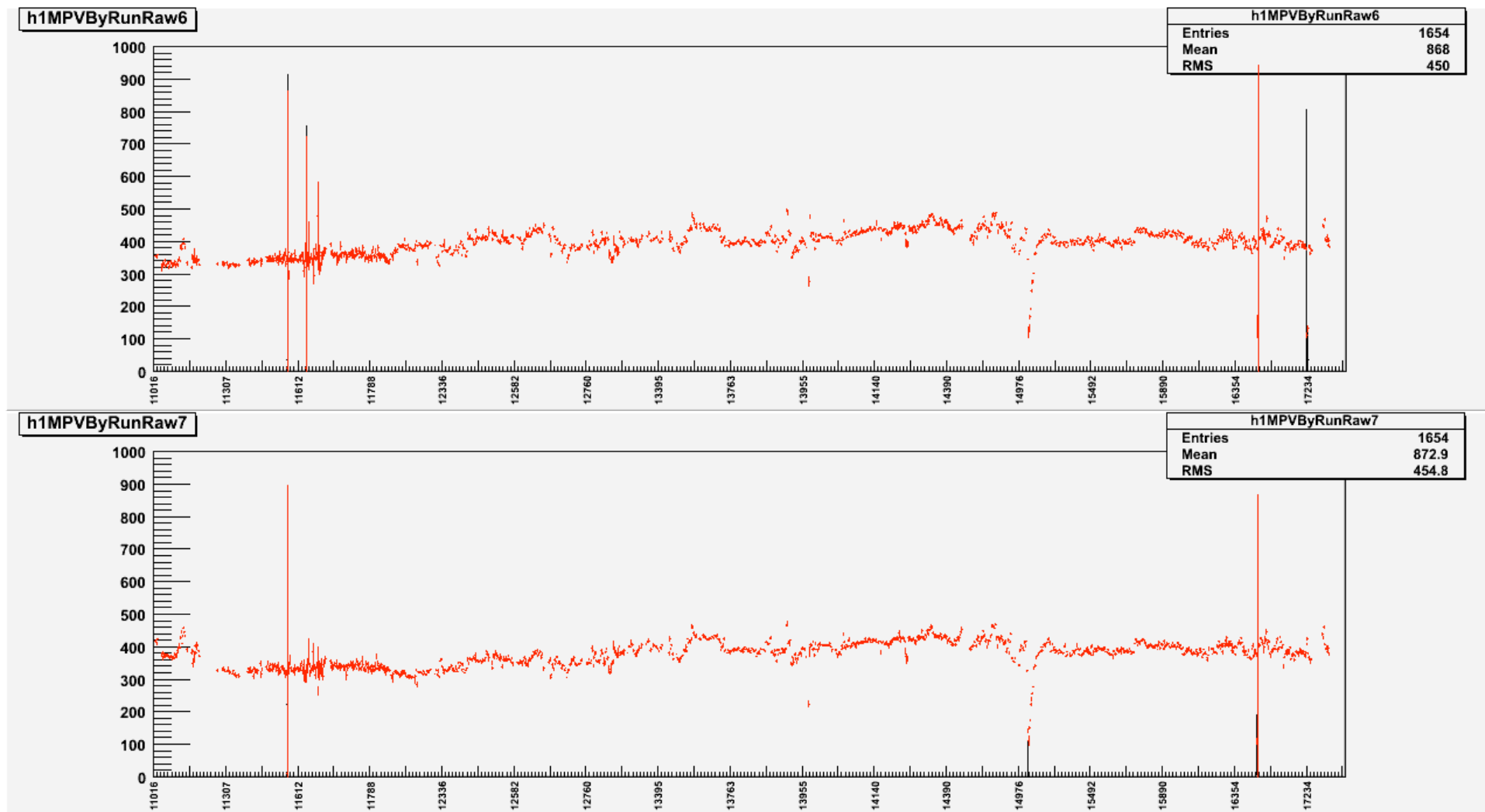## These anodes are problematic.

The stats are so low, this may be the best we can do…
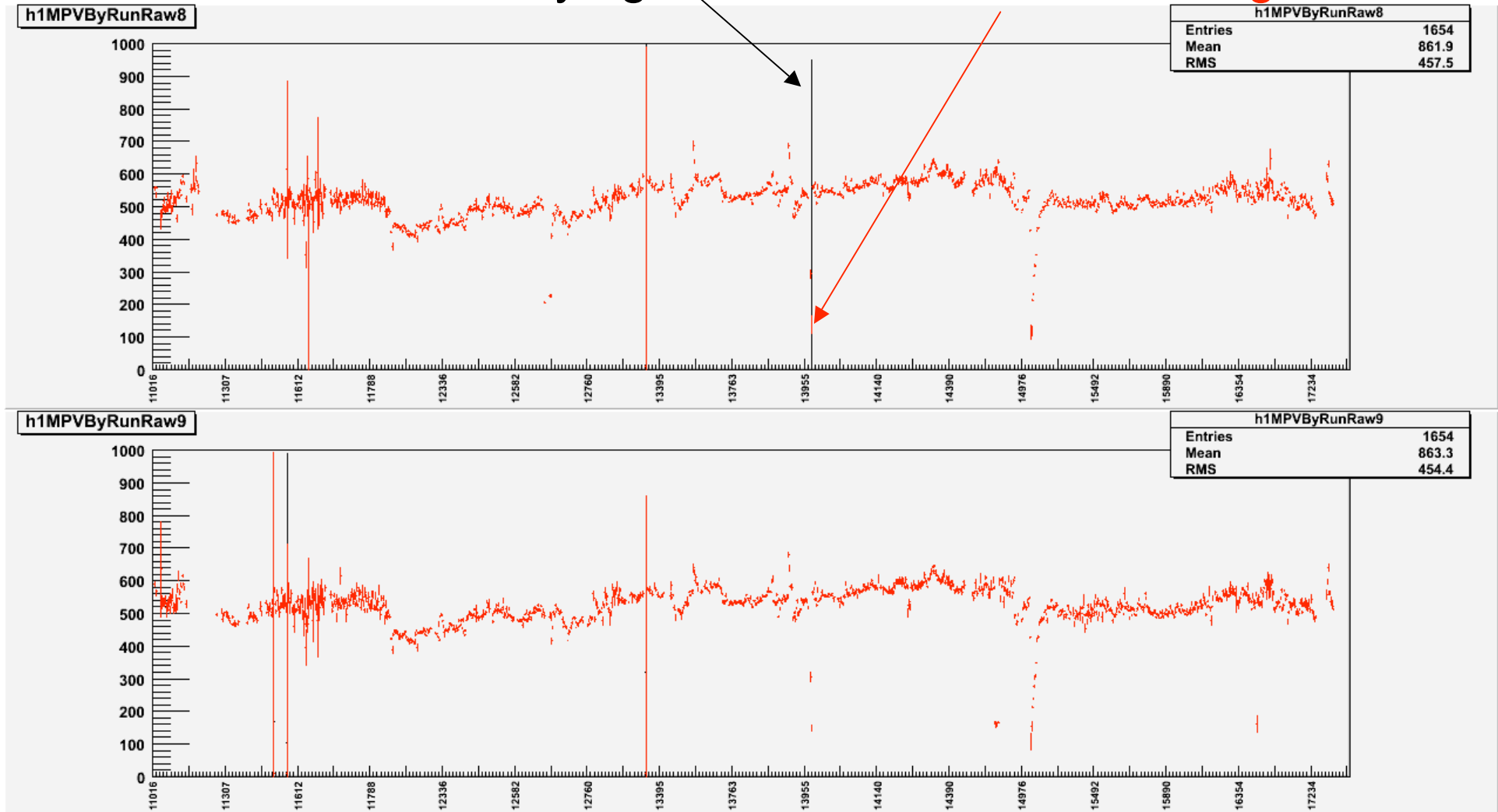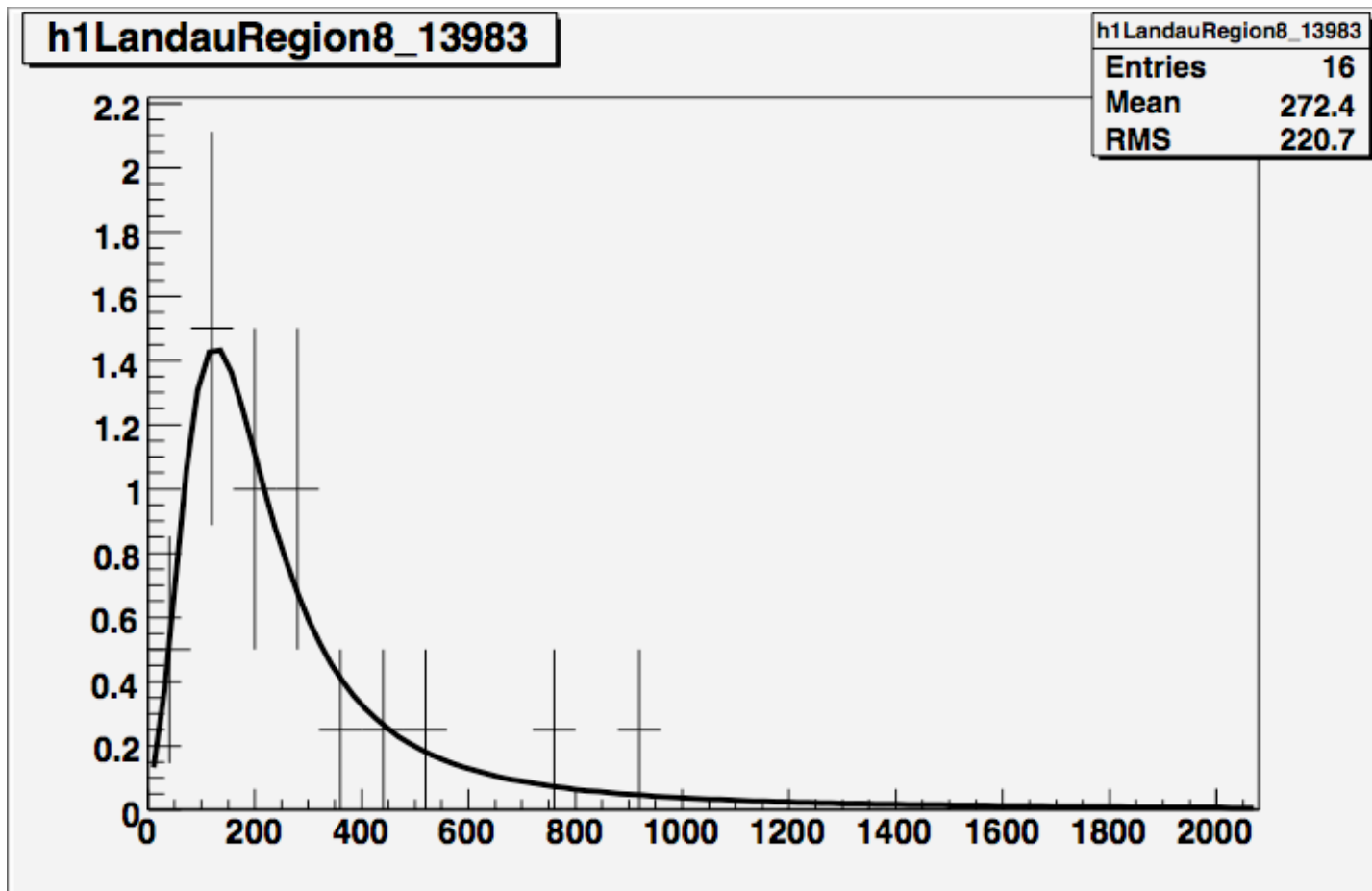
Anode 4/5

Anode 6/7

Anode 8/9

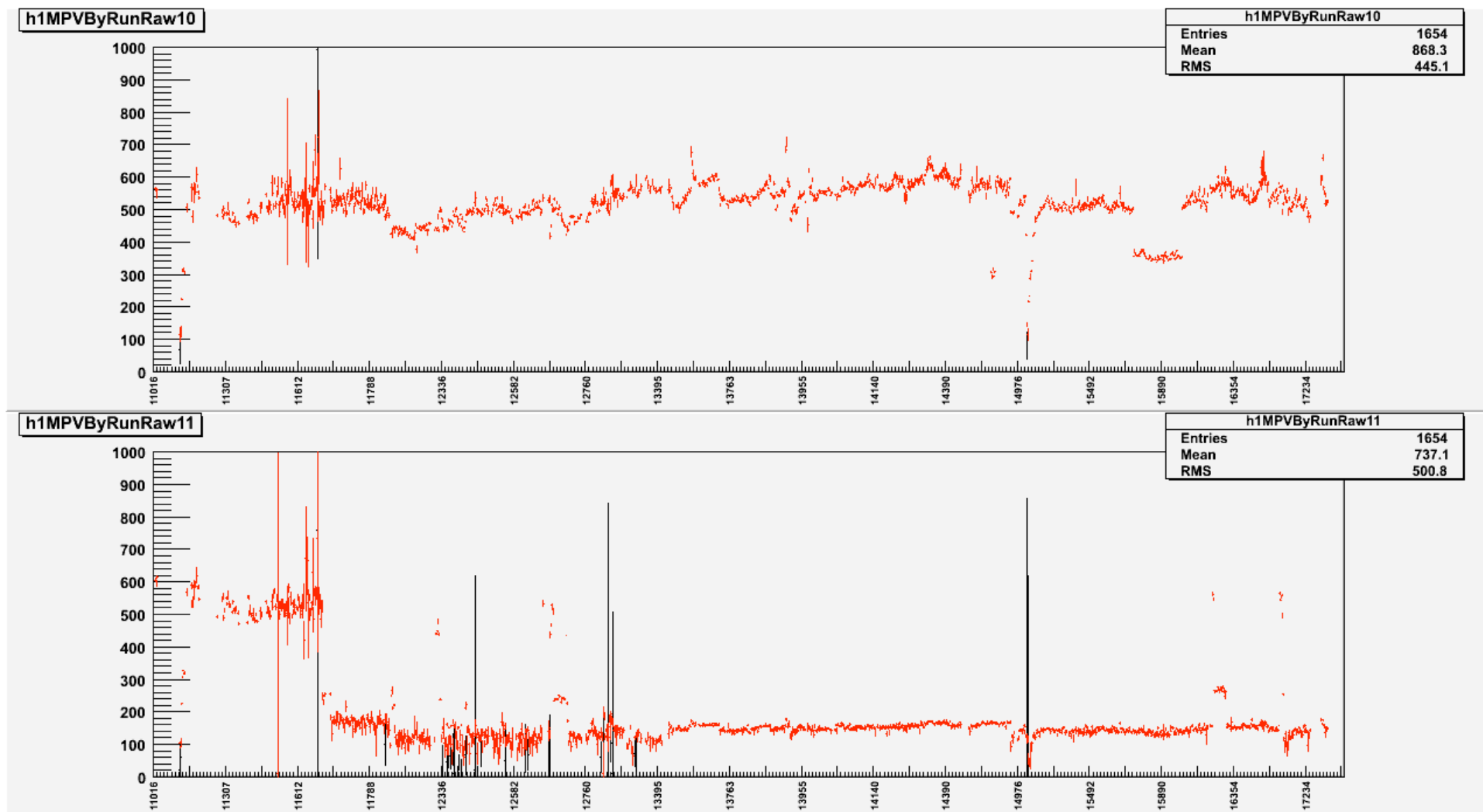Bad fit, try again…   Hard to see, but it got better
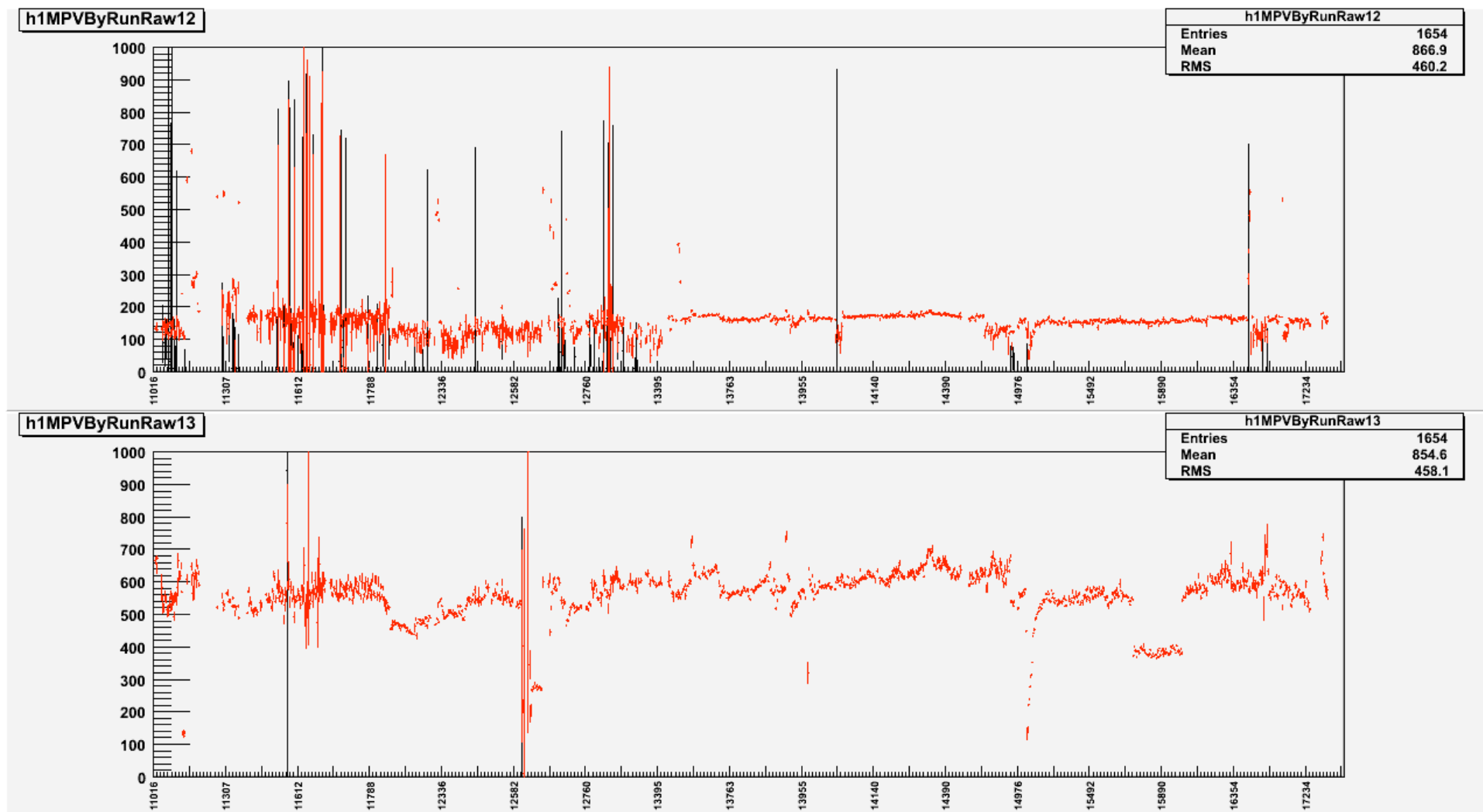
Re-fitting

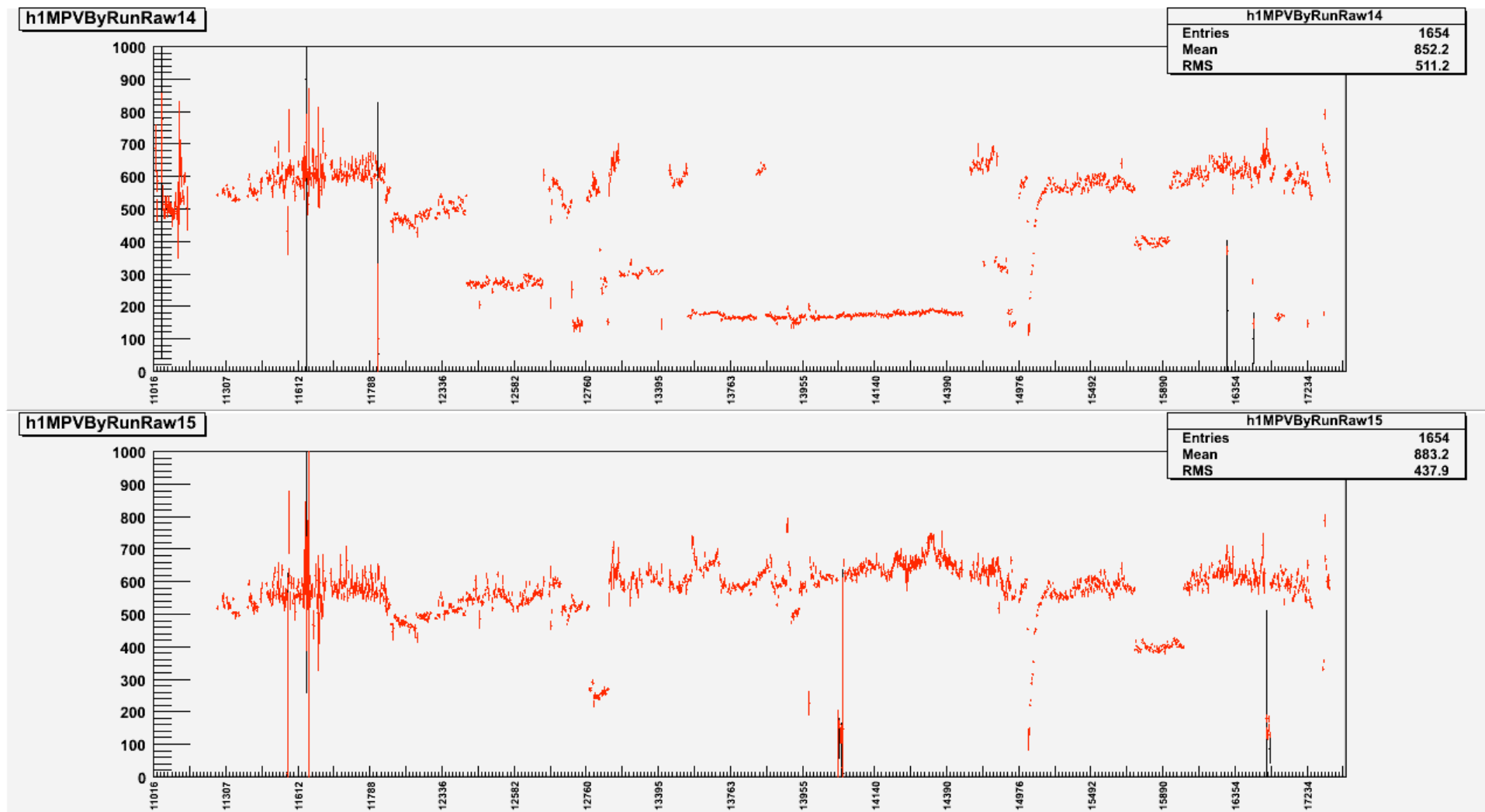A low gain, low stats anode for this run…

Anode 10/11

Anode 12/13

Anode 14/15

To-do

- Finish QA on histogram output in afs

- Decide how to handle problematic runs/anodes (e.g. average over a time window or run range?)

- Write improved values back to DB for use in pass3